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20 JUL 1971

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Copy 9 of 12

19 JUL 1971

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MEMORANDUM FOR: Director, CIA Reconnaissance Programs

SUBJECT: Program Progress Report

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Forwarded herewith are three copies of the IDEALIST

Program Progress Report for the period 1 April 1971 -

30 June 1971.

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WENDELL L. BEVAN, JR.
Brigadier General, USAF
Director of Special Activities

Attachments -

As stated

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NRO review(s)
completed.

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SAS/O/OSA [redacted] (8 July 1971)

Distribution:

- 1 - D/CRP
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- 3 - D/CRP
- 4 - DDS&T Reg
- 5 - D/SA
- 6 - SAS/O/OSA
- 7 - D/O/OSA
- 8 - IDEA/O/OSA
- 9 - INTEL/O/OSA
- 10 - D/M/OSA
- 11 - AMS/OSA
- 12 - RB/OSA

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Section I

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IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 April 1971 - 30 June 1971)

I. AIRFRAME

A. Transfer of Aircraft - Two U-2C aircraft, serial numbers 348 and 349 were delivered to Lockheed facility at Palmdale for use in the NASA Earth Resources Project on 23 April 1971. U-2C, serial number 383 was delivered to Palmdale on 30 June 1971 for testing of

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Transfer of these aircraft terminates flying of U-2C aircraft by OSA.

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C. Light Weight HF Radio - Procurement of the new Light Weight HF Radio has been approved. Contract negotiations to provide this new equipment for the entire fleet have been completed. The new equipment, which provides a reduction of 86 pounds in total weight, will be installed at the base of the vertical stabilizer close to the antenna. Present equipment is located in the E-Bay and requires a long cable run to the antenna.

D. U-2R Flight Test and Operational Training Summary

	<u>1 APR-30 JUN</u> <u>FLTS.</u>	<u>1 APR-30 JUN</u> <u>TIME</u>	<u>TOTAL</u> <u>FLTS.</u>	<u>TOTAL</u> <u>TIME</u>
1 - 051	43	144.7	315	1061.1
2 - 053	44	136.8	290	1079.6
3 - 054	35	105.5	326	1050.4
4 - 055	26	88.0	361	1132.1
5 - 057	--	---	355	1211.4
6 - 058	30	78.6	408	1302.1
TOTAL	178	553.6	2055	6836.7

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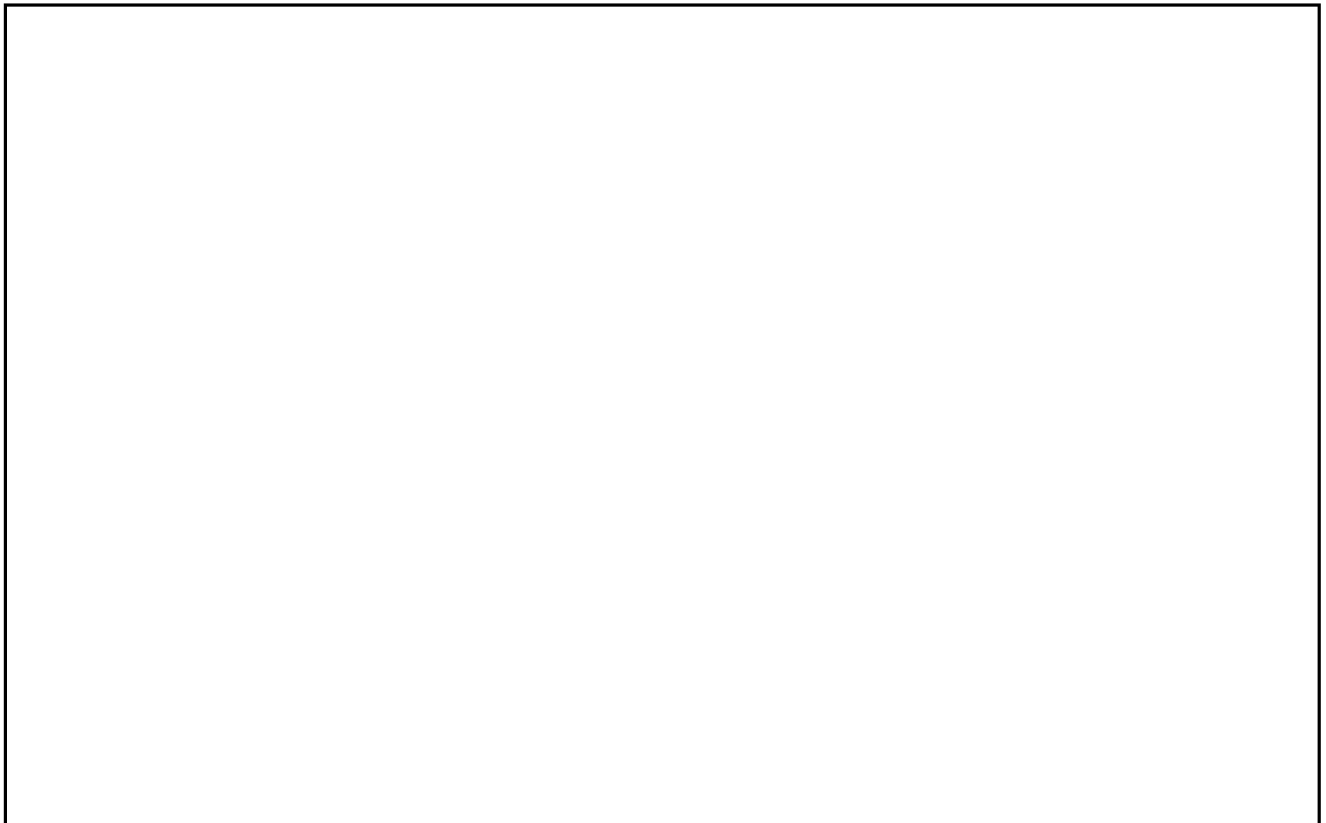
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II. PAYLOAD

A. Q-Bay Preconditioning - Performance tests of the prototype Q-Bay Preconditioning Cart were completed 29 June 1971. Delivery of the first of seven production units is expected during July 1971. These carts will provide cooling air for temperature preconditioning of the camera bay and will eliminate up to two hours of flight time currently required to adequately condition installed photographic systems prior to actual photography.

B. Photographic Sensors - Contract negotiations for acquisition of new lens systems for the B-2 and H cameras have been completed. Delivery of the new lens for the H camera is scheduled for November 1971, and delivery of the new B-2 lens is anticipated during March 1972. These new lenses should reduce color aberration and provide color correction over a wide spectral range which will improve the photographic capability of these camera systems.

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IV. SUPPLY

A. Property Account Inventory - An inventory of OSA Property Account 2805 was completed during this quarter. In conjunction with this inventory, paper work for transfer of all communication equipment [redacted] was completed. Subsequent to the inventory all loan accounts from 2805 were verified and new custodian receipts accomplished.

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B. Vehicle Authorizations - A new OSA TVA which aligns vehicle types and quantities to mission requirements has been approved. This is the first TVA revision and approval since 1966.

V. RESEARCH AND DEVELOPMENT

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A. General R&D



VI. AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

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A. Medical



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B. Life Support Equipment

1. Six-Line Release - The test program covering Engineering Change Proposal (ECP) U-2R-61 concerning control of personnel parachutes is now progressing well. The whirl-tower tests at El Centro, California, have been completed, the test parachutists have been fitted with the full-pressure suits, and live jumps from 13,000 feet began during the second week of June 1971.

2. Tube Food Warmer - Discussions were held at Advanced Development Projects (ADP) Division, LAC, Burbank, California, with [] in mid-May in reference to the Tube Food Warmer ECP. Apparently the test item failed when the food warmer

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temperature was elevated to the point of rupturing the tubes. A time delay relay will be installed in the production model set for approximately 140° F and 15 minutes. If successful in tests, this device should be installed in the aircraft.

3. Neck Dams for S1010 Pilot Protective Assembly (PPA) - Neck dams are being fabricated at the David Clark Company for insertion in one of the pockets of the S1010 PPA. This dam can be placed over the head (when the pressure suit helmet is removed) and attached to the neck ring. With such a dam, the pilot does not need to concern himself with taking on water in the pressure suit if he inadvertently falls out of his one-man raft. Similar dams to be placed on the wrists are also being fabricated at this time.

4. Rucksack Modification - The rucksack inflation device inside the -2A survival seat kit has been failing the four hour leak check performed as a part of the final functional check after IRAN. A recent ECP has been approved which will alleviate this leaking problem and speed the IRAN turnaround time for seat kits.

5. Partial Pressure Suit Inventory - A recent survey and inventory list of partial pressure suit life support equipment has been forwarded to Warner Robins Depot. This equipment is to be turned over to WRAMA for use in support of the NASA Earth Resources Project.

C. Training

1. Parasail, Tropical and Seacoast Survival Training for IDEALIST Pilots [redacted] - This training was conducted in two phases. Phase One was parasail conducted at Lake Okeechobee, Florida, and Phase Two was Tropical and Seacoast Survival Training conducted in the Everglades National Park, Florida. The performance of the two students was outstanding in every respect.

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2. Dilbert Dunker Training - "Dilbert Dunker" training was successfully completed for IDEALIST pilots at MIRAMAR Naval Air Station, San Diego, California, in preparation for training in August 1971.

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3. Parasail Training - A new parasail launch platform was fabricated and used for parasail pressure suit indoctrination of SR-71 and U-2R pilots during the last two weeks of June 1971.

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IDEALIST

OPERATIONAL SUMMARY AND STATUS

(1 April 1971 - 30 June 1971)

I. OPERATIONAL MISSION SUMMARY

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II. GENERAL

A. RED DOT - Ten sorties were flown in support of continuing film tests using various camera configurations in the U-2C/G and the U-2R.

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D. Pilot Training - [redacted] flew a total of 19 sorties in the U-2R.

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E. Aircraft Transfer - Two U-2C/G aircraft (348 and 349) were transferred to NASA and one U-2C/G (383) was transferred to Lockheed during this period.

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G. Hurricane Base Line - One sortie was flown to obtain photography of Gulf Coast areas for the Office of Emergency Preparedness.

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III. PILOT AND AIRCRAFT STATUS (AS OF 30 JUNE 1971)

A. Detachment "G" (Edwards AFB - North Base)

Aircraft 3 U-2R

Pilots

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B. Detachment "H"

Aircraft

Pilots

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